GUJARAT TECHNOLOGICAL UNIVERSITY
MCA - SEMESTER– IV• EXAMINATION – WINTER 2016

Subject Code: 640002   **Date:21/10/ 2016**
Subject Name: Web Technology & Application Development (WT&AD)
Time:10.30 AM TO 01.00 PM   **Total Marks: 70**
Instructions:
    1. **Attempt all questions.**
    2. **Make suitable assumptions wherever necessary.**
    3. **Figures to the right indicate full marks.**

Q.1	**(a)**	Answer the following :	**07**
		i. JavaScript is created by_____ . (Sun, Microsoft, Netscape)	
		ii. _____ is only property of string object in JavaScript.	
		iii. CGI means _____.	
		iv. We must configure and map all jsp files into web.xml. (True / False)	
		v. Which interface must be implemented by all Servlets?	
		vi. web.xml file is case sensitive. Justify?	
		vii. Give the difference between GenericServlet and HttpServlet.	
	(b)	What is cookie? How cookies are sent and received by servlet? Explain with example.	**07**
Q.2	**(a)**	Explain Servlet Life cycle with example.	**07**
	(b)	Explain jsp:include and include directive.	**07**
		OR	
	(b)	What is JSP directive? Explain page directive with attributes.	**07**
Q.3	**(a)**	Explain JSP scriptlets, expression and declaration with example.	**07**
	(b)	Write down the required steps for implementing MVC with RequestDispatcher with example.	**07**
		OR	
Q.3	**(a)**	Write down steps required by the servlet to generate JPEG images.	**07**
	(b)	Explain the three main constructs for build and manipulate JavaBean components in JSP pages.	**07**
Q.4	**(a)**	Explain CallableStatement with example.	**07**
	(b)	Write down the steps for connecting and querying database with java applications with example.	**07**
		OR	
Q.4	**(a)**	Explain Prepared Statement with example.	**07**
	(b)	What is session Tracking? Explain methods of session tracking API with example.	**07**
Q.5	**(a)**	What is JSTL? Explain c:forEach and c:forTokens Tag with example.	**07**
	(b)	Define Expression Language. Discuss its implicit objects.	**07**
		OR	
Q.5	**(a)**	List and explain Tag Library Components to create custom tags?	**07**
	(b)	Explain the structure of web.xml with sample data.	**07**

****